

Converting Units

The TI-89 has a built-in unit converter. On the calculator screen physical units are preceded by an underscore `_`. The system of units uses the converter arrow `▶` to switch between different types of units.

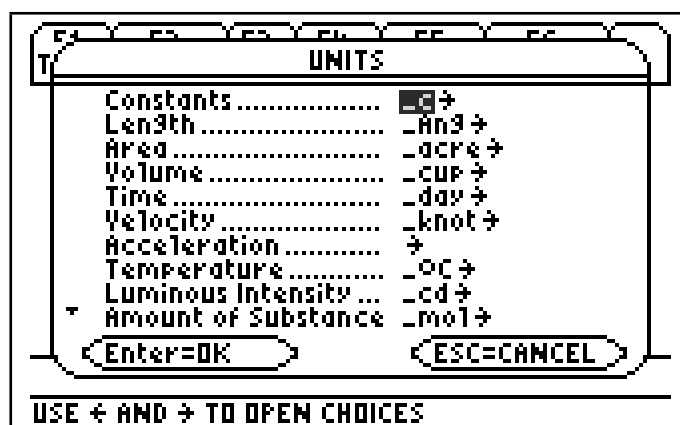
You may directly type the commands for doing unit conversion. The keys `◊` `MODE` give the underscore and the keys `2nd` `MODE` give the converter arrow.

Try,

```
3_km ▶_ft ENTER
```

This converts kilometers to feet.

To save time with the typing, you press the keys `2nd` `3` to enter the units menu. This gives access to the units that are pre-defined on the calculator.



Try,

```
18_rod ▶_m ENTER
```

You may set up your own user defined units on the calculator. For example suppose you want to use the units feet per second (fps). From the homescreen press `F4` `1` 1:Define . Type in the following into your calculator.

```
Define _fps = _ft/_s ENTER
```

If you go back into the units menu **2nd** **3** you will see `_fps` inside the velocity options.

Try,

```
60_fps ►_mph ENTER
```

The calculator's scheme for converting will work between all sorts of units. There is one exception. Converting between temperature systems requires the special command: **tmpCnv(** . You can get this command from the calculator's catalog. The temperature systems `_°C`, `_°F`, `_°K`, and `_°R` are in the units menu.

Try,

```
tmpCnv(52_°F,_°C) ENTER
```

Done in T_EX.